



1

ATTORNEY DOCKET NO. 14028.0287

SEQUENCE LISTING

<110> Neville, David M.
~~Knechtle, Stuart~~
~~Thomas, Judith M.~~
Thompson, Jerry T.
~~Hu, Huaizhong~~
~~Ma, Shenglin~~

<120> IMMUNOTOXINS AND METHODS OF INDUCING
IMMUNE TOLERANCE

<130> 14028.0287

<140> US 09/380,484

<141> 1999-12-06

<150> PCT/US98/04303

<151> 1998-03-05

<150> 60/039,987

<151> 1997-03-05

<160> 16

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 3476

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<223> Description of Artificial Sequence:/note =
synthetic

<400> 1

aaaaaaaaagc	ccgccgaagc	gggcttttatt	accaagcgaa	gcgccattcg	ccattcaggc	60
tgcgcaactg	ttgggaaggg	cgatcggtgc	gggcctcttc	gctattacgc	cagctggcga	120
aagggggatg	tgctgcaagg	cgattaagtt	gggtaacgcc	agggttttcc	cagtcacgac	180
gttgtaaaac	gacggccagt	ccgtaatacg	actcacttaa	ggccttgact	agagggaaga	240
tctggatgca	ttcgcgcgca	cgtacggtct	cgaggaattc	ctgcaggata	tcgtggatcc	300
aagcttcacc	atgggagacg	tcaccggttc	tagaacctag	ggagctctgg	taccactag	360
tgagtcgtat	tacgtaaccg	caggtaaaag	gcatattttt	cgcgtgtcat	ggctagtaaa	420
taacaccggt	gtcatctaga	gtcagggaaa	gacaatgaaa	aacgaagaaa	gccaccgggc	480
ggcaaccgga	tgactttcgc	ttatcaccca	gcacacacct	gggagaaatc	acggtcatga	540
gtttacagac	tcatgcgcag	aatgcgcaca	ctaaaacacc	taccgcgctc	gagcgcgacc	600
gtggtggact	ggacaacacc	ccagcatctg	ccagtgaccg	cgacctttta	cgcgatcatc	660
taggccgcga	tgtactccac	ggttcagtca	cacgagactt	taaaaaggcc	tatcgacgca	720
acgctgacgg	cacgaactcg	ccgcgtatgt	atcgcttcga	gactgatgct	ttaggacggt	780

123

B

gcgagtacgc	catgctcacc	accaagcagt	acgccgcgct	cctggtcgta	gacgttgacc	840
aagtaggtac	cgcaggcggg	gaccccgag	acttaaacc	gtacgtccgc	gacgtgggtgc	900
gctcactgat	tactcatagc	gtcggggccag	cctgggtggg	tattaacca	actaacggca	960
aagcccagtt	catatggctt	attgaccctg	tctacgctga	ccgtaacggg	aatctcgcc	1020
agatgaagct	tcttgacgca	accacgcgtg	tgctgggtga	gcttttagac	catgacccgc	1080
acttttccca	ccgcttttagc	cgcaaccgct	tctacacagg	caaagcccct	accgcttatc	1140
gttggtatag	gcagcacaa	cgggtgatgc	gccttgagga	cttgataaag	caggtaaggg	1200
atatggcagg	acacgaccag	ttcaaccca	ccccacgcca	gcaattcagc	tctggccgcg	1260
aacttatcaa	cgcgggtcaag	acccgcccgtg	aagaagccca	agcattcaaa	gcactcgccc	1320
aggacgtaga	cgcggaaatc	gccgggtggc	tcgaccagta	tgacccggaa	cttatcgacg	1380
gtgtgcgtgt	gctctggatt	gtccaaggaa	ccgcagcacg	cgacgaaaca	gccttttagac	1440
atgcgcttaa	gactggccac	cgcttgccgc	agcaaggcca	acgcctgaca	gacgcagcaa	1500
tcatcgacgc	ctatgagcac	gcctacaacg	tcgcacacac	ccacggcggg	gcaggccgcg	1560
acaacgagat	gccacccatg	cgcgaccgcc	aaacccatggc	aaggcgcgtg	cgcgggtatg	1620
tcgcccgaatc	caagagcgag	acctacagcg	gctctaacgc	accaggtaaa	gccaccagca	1680
gcgagcggaa	agccttgggc	acgatgggac	gcagaggcgg	acaaaaagcc	gcacaacgct	1740
ggaaaacaga	ccccgagggc	aaatatgcgc	aagcacaag	gtcgaagctt	gaaaagacgc	1800
accgtaagaa	aaaggctcaa	ggacgatcta	cgaagtcccg	tattagccaa	atgggtgaacg	1860
atcagtattt	ccagacaggg	acagttccca	cgtgggctga	aataggggca	gaggtaggag	1920
tctctcgcgc	cacggttgct	aggcatgtcg	cggagctaaa	gaagagcggg	gactatccgg	1980
acgtttaagg	ggtctcatat	cgtaagcaat	atacggttcc	cctgccgtta	ggcagttaga	2040
taaaacctca	cttgaagaaa	accttgaggg	gcagggcagc	ttatatgctt	caaagcatga	2100
cttcctctgt	tctcctagac	ctcgcaaccc	tcggccataa	cctcaccgaa	ttgtgggcca	2160
tcgcccctgat	agacgggttt	tcgccccttg	acgttgagg	ccacgttctt	taatagtggg	2220
ctcttggtcc	aaactggaac	aacactcaac	cctatctcgg	gctattcttt	tgatttataa	2280
gggattttgc	cgatttcggc	ctattgggta	aaaaatgagc	tgatttaaca	aaaatttaac	2340
gcgaatttta	acaaaatatt	aacgtttaca	atttaaatat	ttgcttatac	aatcttcctg	2400
tttttggggc	ttttctgatt	atcaaccggg	gtaaatcaat	ctaaagtata	tatgagtaaa	2460
cttggtctga	cagttacca	tgcttaata	gtgaggcacc	tatctcagcg	atctgtctat	2520
ttcgttcatc	catagttgcc	tgactccccg	tcgtgtagat	aactacgata	cgggagggct	2580
taccatctgg	ccccagtgct	gcaatgatac	cgcgagaccc	acgtccaccg	gctccagatt	2640
tatcagcaat	aaaccagcca	gccggaagg	ccgagcgcag	aagtggctct	gcaactttat	2700
ccgcctccat	ccagtctatt	aattgttgcc	gggaagctag	agtaagtagt	tcgccagtta	2760
atagtttgcg	caacgttggt	gccattgcta	caggcatcgt	ggtgtcacgc	tcgtcgtttg	2820
gtatggcttc	attcagctcc	ggttcccaac	gatcaaggcg	agttacatga	tcccccatgt	2880
tgtgcaaaaa	agcgggttagc	tccttcgggc	ctccgatcgt	tgtcagaagt	aagttggccg	2940
cagtgttatc	actcatgggt	atggcagcac	tgcataattc	tcttactgtc	atgccatccg	3000
taagatgctt	ttctgtgact	ggtgagtact	caaccaagtc	attctgagaa	tagtgtatgc	3060
ggcgaccgag	ttgctcttgc	ccggcgtcaa	cacgggataa	taccgcgcca	catagcagaa	3120
ctttaaaagt	gctcatcatt	ggagaacggt	cttcggggcg	aaaactctca	aggatcttac	3180
cgctgttgag	atccagttcg	atgtaaccca	ctcgtgcacc	caactgatct	tcagcatctt	3240
ttactttcac	cagcgtttct	gggtgagcaa	aaacaggaag	gcaaaatgcc	gcaaaaaagg	3300
gaataagggc	gacacggaaa	tggtgaatac	tcatactctt	cctttttcaa	tattattgaa	3360
gcatttatca	gggttattgt	ctcatgagcg	gatacatatt	tgaatgtatt	tagaaaaata	3420
aacaaatagg	ggttccgcgc	acatttcccc	gaaaagtgcc	acctgacgta	gttaac	3476

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

124

B

<400> 2
gacatccaga tgacccagac c 21

<210> 3
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 3
cctccccgagc caccgcctcc gctgcctccg cctcctttta tctccagctt gtgtcgcc 58

<210> 4
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 4
gcagcggagg cggtggctcg ggagggggag gctcggaggt gcagcttcag cagtct 56

<210> 5
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 5
gcaagcttga agactgtgag agtggtgcct tg 32

<210> 6
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 6
gtctcttcaa agcttattgc ctgagctgcc tcccaaa 37

<210> 7
<211> 32
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 7

gcacctagat cagtagcagg tgccagctgt gt

32

<210> 8

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 8

cggtcgacac catggagaca gacacactcc tggtatgggt actgctgctc tgggttcca

59

<210> 9

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 9

gtactgctgc tctgggttcc aggttccact ggggacatcc agatgaccca g

51

<210> 10

<211> 67

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 10

atgaaatacc tattgcctac ggcagccgct ggattgttat tactgcgctg cccaaccagc
gatggcc

60

67

<210> 11

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

B²
ml

126

B

<400> 11
atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgctgc ccaa 54

<210> 12
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 12
ggattgttat tactcgctgc ccaacaagcg atggccggcg ctgatgatgt tgttgattc 59

<210> 13
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 13
cgtactata aaactctttc caatcatcgt c 31

B₂
n/

<210> 14
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 14
gacgatgatt ggaaagagtt ttatagtacc g 31

<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:/note =
synthetic construct

<221> misc_feature
<222> (0)...(0)
<223> N = c or a

<400> 15
agatctgtcg ntcacagct.tttgatttca aaaaatagcg 40

<210> 16
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:/note =
synthetic construct

<400> 16

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15
